GRIGOR'YEVICH, Vasiliy Prokhorovich, doktor tekhn. nauk, prof.;

KARLOV, G.I., kand. tekhn. nauk, retsenzent; TOKAR', V.M.,

red.izd-va; GARMUKHINA, L.A., tekhn. red.

[Effect of the procedure for joining sheet-metal parts on their strength and durability] Vliianie tekhnologii vypolneniia soedinenii listovykh detalei na ikh prochnost' i vynoslivost'. Moskva, Oborongiz, 1963. 207 p. (MIRA 16:5) (Machine shop practice)

AID P - 1160

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 13/31

Author

Grigor'yevskiy, I. I., Foreman

Title

Prevention against damage of reflector lamps

Energetik, 11, 21-22, N 1954

Abstract

Periodical

The author briefly describes the arrangement to prevent damage to lamps in an installation for drying bakelite

insulation on generator sheet steel. One drawing.

Institution:

None

Submitted : No date

ORIGOR'YEVSKIY, V.M.; MANDEL', O.Ye.

Observations of the lunar eclipse of March 24, 1959. Astron.
tsir. no.201:6-7 Ap '59. (MIRA 13:2)

1.0desskaya astronomicheskaya observatoriya.
(Molipses, Lunar--1959)

YAKUBTSINKR, N.M., kandidat teknicheskikh nauk; GRIGOR'YEVYIH, G.F., inzhener.

Effectiveness of sinter cooling in a pot cooler. Metallurg no.11:2(MIRA 10:1)

1. Starshiy nauchnyy sotrhudnik Leningradskogo politekhnicheskego instituta(for Yakubtsiner) .2. Nachal'nik aglomeratsionnogo tsekha Cherepovetskogo metallurgicheskogo zavoda (for Origor'yesyth)
(Cherepovets—Sintering)

SOV/130-58-6-4/20

AUTHORS: Levin, L.Ya., Yakubtsiner, N.M., Sholeninov, V.M. and

Grigor yevykh, G.F.

Use of Pyrite Cinders in the Production of High-basicity Fluxed Sinter (Priseneniye piritnykh ogarkov v proizvodstve TITLE:

oflyusovannogo aglorerata govyskennoy osnovnosti)

PERIODICAL: Metallurg, 1958, Nr 6, pp 5 - 10 (USSR).

A shortage of concentrates at the Cherepovets' Metall-ABSTRACT: urgical Works led to the use from the end of 1956 of pyrite cinder. Memioning this, the authors go on to describe the development of sintering methods enabling a high proportion of this material to be used in the production of sinter with a basicity range of 1 - 1.2. The sinter plant at the works has three 75 m² machines and sinters a relatively high SiO₂ mix (Table 1). The pyrite cinders available from the Dorogomilovsk and Shchel'kovsk Works contain 0.3-0.4% Cu and 0.35-0.45% Zn, the sulphur content of both varying widely. Because of the paucity of published data and lack of experience in the USSR, on the sintering of pyrite cinders, experiments were first carried out on a 0.11 m2 sinter box (Figure 2) with the participation of P.T. Krasavina, A.S. Bulatnikova and A.G. Zel'tser. Uard 1/3

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

SOV/130-58-6-4/20 Use of Pyrite Cinders in the Production of High-basicity Fluxed Sinter

Coke and limestone were 3-0 mm, cinders, concentrates and flue-dust were screened through a 5 mm screen and returns were 12-0 mm. The results showed (Figure 3) that with a mix containing 10-30% cinders accurate control of carbon (to 4.5 and 3.5-4.0% in the box and on the full scale, respectively), was obtained. A further series of tests were made with mixes containing 33% cinder showing sinter sulphur increasing with increasing CaO-content, but this effect could be minimized by raising the carbon content of the mix. Sintering speed increased as the basicity was raised to 0.8 but was unaffected by further increases. With increasing returns, from 25 to 35% sintering rate, permeability and sinter strength increased and sulphur decreased (Figure 5). Tests with 0-40% cinders in the ore part of the mix showed that a satisfactory sinter was obtained with 20-25% cinder without appreciable slowing of sintering. Bed depths of 200, 225, 250 and 275 mm were tested (Figure 7) with 25% cinders and a basicity of 1.2: maximal sulphur was obtained with the shallowest bed, the best de-sulphurization being obtained with a bed depth of Card2/3depths. Sinter strength was highest with a bed depth of

official property and an experience of the control of the control

Use of Pyrite Cinders in the Production of High-basicity Fluxed

225 mm, while sintering speed decreased when the depth exceeded 250 mm. The authors' conclusion is that 250 mm is the optimal bed depth. Results of full-scale experiments (Figure 8) at the Cherepovets' Works on the whole confirmed the box experiments. The main conditions for maximal desulphurization during sintering were found to be: bed-depth 240-250 mm instead of 275, carbon content of the mix 4.5 - 4.8 instead of 3.5-4% (with 20-25% cinders); good permeability, secured by 30-35% returns and an artificial hearth layer. The lower iron content of the sinter with cinders was found to have no effect on the coke rate (700 kg/t pig) or the coefficient of utilisation of useful volume (0.73). There

ASSOCIATION: Cherepovetskiy metallurgicheskiy zavod (Cherepovets Metallurgical Works) and Leningradskiy politekhnicheskiy institut (Leningrad Polytechnical Institute)

Card 3/3

1. Sintering furnaces - Equipment

2. Pyrites - Applications

3. Sintering furnaces - Operation

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681 CONTRACTOR AND AND SELECTION OF THE PARTY OF

18.2000

/817c

SOV/133-60-3-1/24

AUTHORS:

Yakubtsiner, N. M., Nevmerzhitskiy, Ye. V., Grigor'yevykh, G. F.

TITLE:

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

PERIODICAL:

Stal', 1960, Nr 3, pp 193-203 (USSR)

ABSTRACT:

This is a description of a successful production of

increased basicity sinter at the Cherepovets Metallurgical Plant(Cherepovetskiy metallurgicheskiy zavod). The

described sintering plant is equipped with 3 sintering machines which were put into pperation in June 1955 and April and December 1956, respectively (see Fig. 1). In the first few months the plant produced nonfluxed sinter, or sinter with the degree of basicity (CaO: SiO2) not higher than 0.5; but since the end of

1955 the plant has been producing sinter of 1.15-1.20 basicity. Working on such sinter, the plant's blast furnaces had better results (regarding coke consumption)

Card 1/6

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

78176 \$07/133-60-3-1/24

than other furnaces in the USSR. Described are: characteristics of raw materials and their preparation for sintering; Olenogorsk (not identified) beneficiated ore; pyrite cinders; limestone; coke fines and other admixtures, as well as the work of sintering plant and the quality of sinter; operation of the equipment and technical-economical characteristics of the sintering plant work. The cost of sinter, considerably lowered since 1956, (125-127 rubles/ton) and processing (about 15 rubles/ton) is still expensive compared with Southern plants (48-55 rubles/ton for sintering; 8-10 rubles for processing. This is explained by: (a) higher cost of Olenogorsk beneficiated ore (107 rubles/ton) as against that of Krivoy Rog beneficiated ore (30 rubles/ton); (b) high power cost due to unfinished construction of the plant and overequipment of sintering plant with electrical machinery; (c) expensive repairs of new equipment (ring type coolers of sinter, conveying of sinter into blast furnace shop, etc.) and purchase

Card 2/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

The Practice of Prometa, Misses and Increased Banielty When Sinteria with Reneficiated Ore

7/1762 307/133-60-3-1/24

of rolled shapes from the outside. Proposed measures for lowering the cost of sinter arc: (1) decreasing power consumption be eliminating excess power electrical motors, introducing nationation, reducing idle time to a minimum; (*) improving quality of repairs, with corresponding extension of time between repairs; (5) prolonging the life of marks by making them from manganese steel (gased minter) and heat resisting east from (fire genter, etc.), applying neat treatment, etc.; (4) increasing the amount of relatively cheap scale in the charge; (5) increasing the amount of relatively cheap and the productivity or labor by 1-1/2. The above measures will lower the sold of cinter (3.5-4 rubles/ton) and therepovets cantifrom (7-4 rubles/ton).

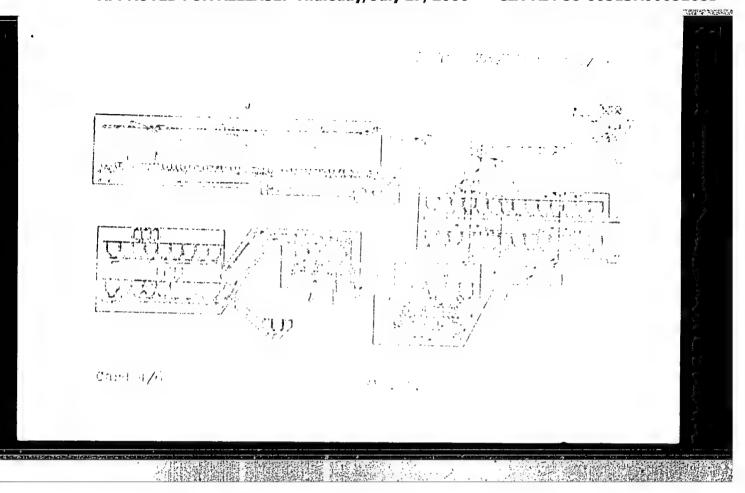
ASSOCIATION:

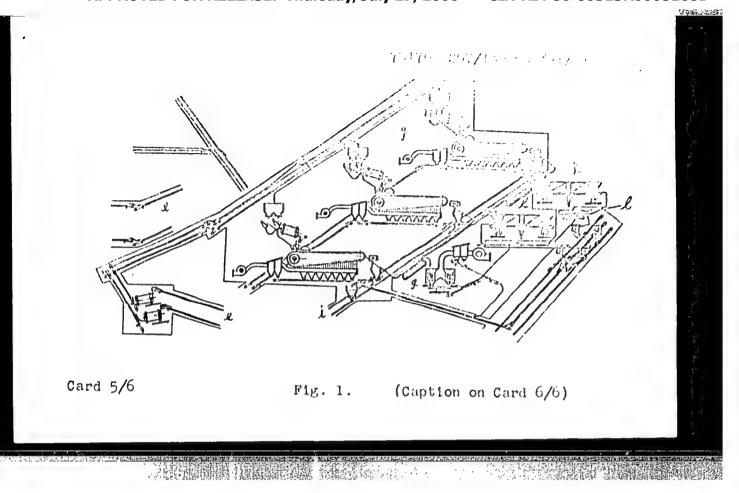
Cherepovets Metalluggied Plant and Letingrad Polytechnic Institute (Cherepovetskiy metallurgi-cheskiy mayor i Leningradukiy collitekhalcheskiy institut)

Card 5/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681





"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

The Practice of Producing Sinter of Increased Basicity When Sintering Fine Beneficiated Ore

78176 **507/**1*33-*60-3-1**/**24

Fig. 1. Schematic diagram of equipment at the Cherepovets sintering plant. (a) Ground type, roofed storehouse of beneficiated ore; (b) coke crushing building; (c) conveyors into charge building; (d) limestone crushing building; (e) conveyors into sintering building; (f) car dumper; (g) sintering building; (h) three-ring type sinter coolers (the third cooler is equipped with cooling blower and battery cyclones); (i) conveyors into primary mixing building; (e) conveyors from coke crushing building; (k) charge building; (l) plate transporters.

Card 6/6

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

THE REPORT OF THE PARTY OF THE

TREKALO, S.K.; YAKURTSINER, N.M.; ANDRONOV, V.N.; GRIGOR'YEVYKH, G.F.;
KAYLOV, V.D.; SHUR, A.B.; v rabote prinimali uchastiye:
NEVMERZHITSKIY, Ye.V.; SHOLENINOV, V.M.; VITOVSKIY, V.M.;
GRINBERG, D.L.; GUTMAN, E.Ye.; YEGOROV, N.D.

Open-hearth furnace operations with classified sinter. Stal' 20 no. 12:1063-1070 D '60. (MIRA 13:12)

1. TSentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii i Cherepovetskiy metallyrgicheskiy zavod.

(Blast furnaces) (Sintering)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

以心理如此 医性直肠结果 经数据之外 一一一一个是一种的数据特别的

1311-66 EUT/03 Annie 3.4	
1311-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) LJP(c) JD/JG CCESSION NR: AR5014397 UR/0058/65/000/004/D032/D032	2
UR/0058/65/000/004/D032/D032	4
DURCE: Ref. zh. Fizika, Abs. 4D242	
THOR: Ignat yeve M. I.: Melik Control	
THOR: Ignat'yeva, M. I.; Melik-Gaykazyan, I. Ya.; Grigoruk, L. V.	
TLE: Effect of lead impurity on the concentration of F-centers in alkali halide	3
TED SOURCE: Sb. Spektroskopiya. M., Nauka, 1964, 176-178	
PIC TAGS: crystal phosphore	
PIC TAGS: crystal phosphor, color center, alkali halide, sodium chloride, tassium chloride,	
ANSLATION: The authors study the effect of Pb-content on the number of F-centers of Pb-content on the number of F-centers	\$
wined which comment (C) is de-	how
wined which corresponds to the maximum number of F -centers. The initial growth ity into the fundamental lattice structure at conce trations do not be im-	
ity into the fundamental lattice and its to embedding of the im-	
ch increases the company of the comp	
d absorption with a further increase in Pb-content is associated with that por-	25
1/2	75
the second secon	

ACCESSION NR: AR5014397			en e	0.
tion of the impurity which phosphor crystal and forms	is distributed among defections between the statements of the statement of	ets in the latt. No Maksimov	ice of the	
SUB CODE: SS	ENCL: 00		•	
			•	
				į
			•	į
			:	
		• *	.•	1
alla di salah s	•			
Mile C				,

GRICORYUK, V.F.

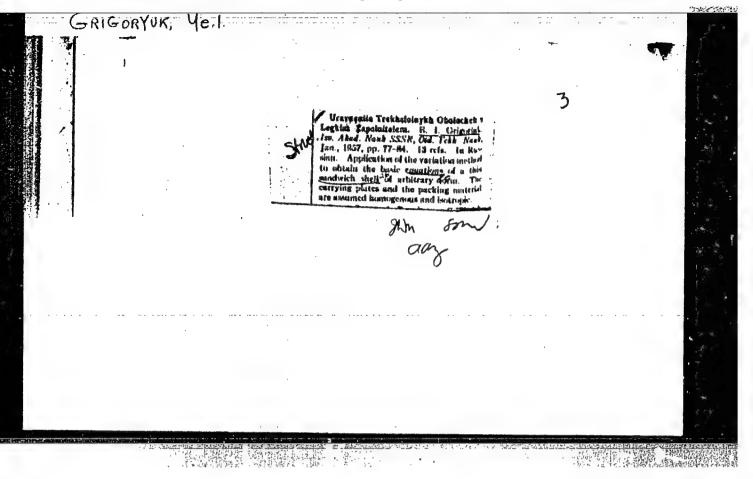
Business accounting by shifts in the railroad stations. Zhel. dor. transp. 45 no.11:72-73 N '63. (MIRA16:12)

1. Starshiy normirovshchik st. Belogorsk Zabaykal'skoy dorogi.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R000516810

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681



CHEL'TSOVA, M.A.; PETROV, A.D.; GRIGOS, V.I.

Synthesis and properties of di- and triphenyl alkanes. Report No.4: Selective hydrogenation of di- and triphenyl alkanes over PtO₂. Isv. AN SSSR. Otd. khim. nauk no.2:294-301 F '61. (MIRA 17:2)

1. Institut organicheskoy khimii im.N.D.Zelinskogo AN SSSR. (Hydrogenation) (Platinum oxide)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

POVAROV, L.S.; GRIGOS, V.I.; MIKHAYLOV, B.M.

Reactions of benzylideneaniline with some unsaturated compounds.

Izv. AN SSSR. Ser. khim. no.11:2039-2041 N '63. (MIRA 17:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

POVAROV, L.S.; GRIGOS, V.I.; KARAKHANOV, R.A.; MIKHAYLOV, B.M.

Reactions of dihydropyran and 2-methyldihydrofuran with some Schiff bases. Izv.AN SSSR. Ser.khim. no.1:179-181 Ja '64. (MIRA 17:4)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MIKHAYLOV, B.M.; FOVAROV, L.S.; GRIGOS, V.I.; KARAKHANOV, R.A.

Reactions of dihydrosylvan with Schiff bases. Izv. AN SSSR. Ser. khim. no.9:1693-1695 S 164. (MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

SHAPIRO, A.B.; ROZANTSEV, E.G.; POVAROV, L.S.; GRIGOS, V.I.

New stable free radical 4-methyl-2-spirocyclohexyl-3,4; 3',2'-tetrahydrofurano-1,2,3,4-tetrahydroquinoline-oxyl. Izv.AN SSSR.

Ser.khim. no.9:1725 S '64. (MIRA 17:10)

1. Institut khimicheskoy fiziki AN SSSR.

FOVAROV, L.S.; GRIGOS, V.I.; KARAKHAHOV, E.A.: MIKHAYLOV, B.M.

Reactions of halogen-containing Schiff's bases with unsaturated ethers. Izv. AN SSSR Ser. khim. no.2:365-367 165.

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

L 59597-65 EWT(m)/EPF(c)/EWP(j) ACCESSION NR: AP5017964 UR/0062/65/000/006/1102/1104 547.831+547.024 AUTHOR: Shapiro, A. B.; Rozantsev, E. G.; Povarov, L. S.; Grigos, V. I. TITLE: Paramagnetic derivatives in the hydrogenated quinoline series SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 6, 1965, 1102-1104 TOPIC TAGS: quinoline derivative, free radical, spectrum electron spin resonance, ESR ABSTRACT: The following stable radical from the hydrogenated quinoline series was obtained for the first time: 6-methoxy-4-methy1-2-spirocyclohexy1-3,4; 3',2'tetrahydrofuran-1,2,3,4-tetrahydroquinolin-1-oxyl (IV). It was synthesized by catalytic oxidation of the corresponding amine (II): 11,0 (1) R = 11Card (III) R = II 1/3 (II) R = OCH, (IY) R = OCH,

L 59597-65 ACCESSION NR: AP5017964

The hyperfine structure of the ESR spectrum of this radical consists of 6 lines. Such a decrease in the number of lines upon replacement of hydrogen in the para-position by a methoxy group agrees with modern concepts of the interaction of an unpaired electron with protons of the benzene ring. Radical (III) was reduced to the initial amine and to the corresponding hydroxylamine (V):

The synthetic procedure employed is described. "In conclusion, the authors express their appreciation to A. A. Medzhidov for participating in the evaluation of the spectroscopic part of this work." Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Institut khimicheskoy fiziki Akademii nauk SSSR (Institute of Chemical Physics, Academy of Sciences, SSSR); Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

Card 2/3

1	BMITTED: 3	AP5017964 00Sep64	 ENCL: 00	SUB CODE:	oc, NP	0
			OTHER: 000	· ·		
	•		 		and desired above a section of the s	
Card	BR 3/3					An annual and

POVAROV, L S.; GRIGGS, V.I.; CHECTAROVCKIY, J.M.; HIKHSTELL, B.M.

Reactions of anils with vinylbityl milfide. Inv. AN SoSE.Ser.khim. no.10:1891-1893 165. (MIRA 18:10)

1. Institut organicheskov khimii im. N.D.Zelinskogo AN SSSR.

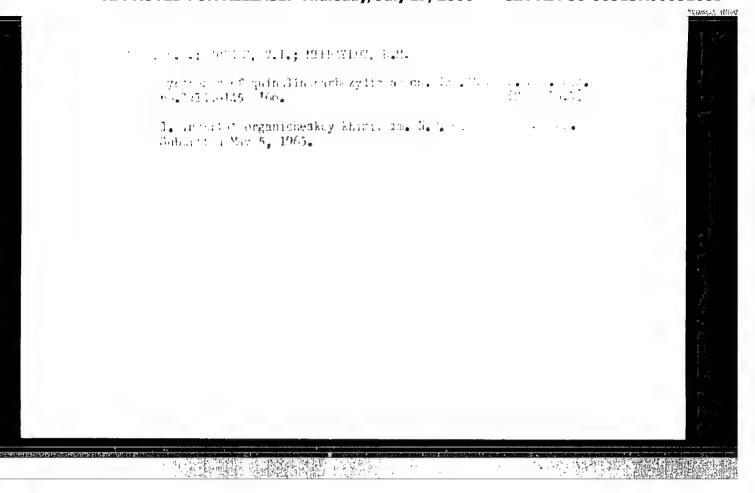
APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

GRIGOS, V.I.; POVAROV, L.S.; MIKHAYLOV, B.M.

Reactions of Shiff bases with vinyl alkyl ethers. Izv. AN SSSR. Ser.khim. no.12:2163-2172 65.

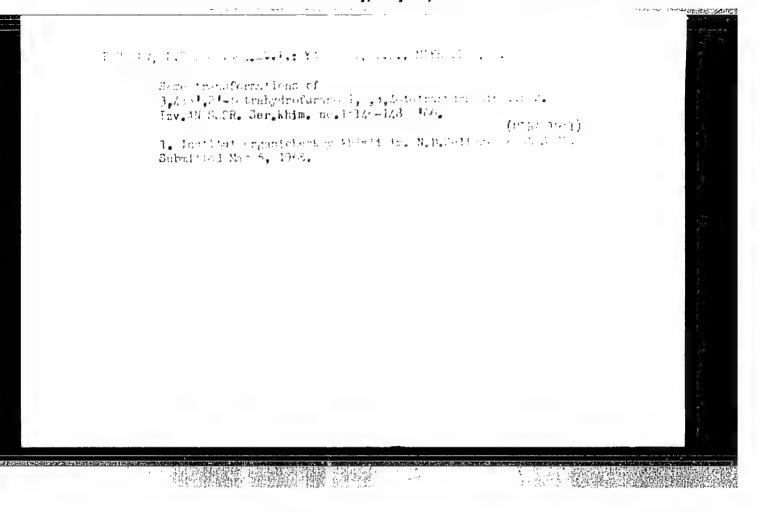
(MIRA 18:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Submitted July 7, 1965.



"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681



Use of Noble's operation. Khirurgiia 40 no.3:70-74 Mr '64.
(MIRA 17:9)

1. Kafedra obshchey khirurgii (zav.- doktor med. nauk F.M.
Danovich) Petrozavodskogo universiteta i Kandalakshskaya
gorodskaya bol'nitsa (glavnyy vrach L.P. Mutovina).

Open dislocation of the hip joint in a child. Vest. Anir. 92
no.6:93 Je '64. (SIRA 18:5

1. Iz khirurgicheskogo otdeleniya (zav. - N.B. Manetina) zheleznodorozhnoy bol'nitay (nachal'nik - M.D. Vishnevskaya) st. Petrozavodsk.

KOBO, Khuan [Blasco Cobo, Juan]; GRIGULEVICH, I.R., kand. ist. nauk, red.; BOENEVA, N.P., red.; RAKITIN, I.T., tekhn. red.

[Our friend Cuba] Drug nash Kuba. Pod nauchn. red. I.R.Grigulevicha. Moskva, Izd-vo "Znanie," 1963. 47 p. (Novoe v zhizni, nauke, tekhnike. XII Seriia: Geologiia i geografiia, no.22) (MIRA 17:1)

"Indeytsy Latinskoy Ameriki i ikh rol' v natsional'ho-osvoboiitel'noy bor'be."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences, Moscow, 3-10 Aug 64.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

CONIONSKIY, S.A., otv. red.; CRIGULEVICH, I.R., red.; YEFIMOV, A.V., red.; CORNOV, M.F., red.; RUDENKO, V.T., red.

[Chile; its politics, economy, culture] Chili; politika, ekonomika, kul'tura. Moskva, Nauka, 1965. 353 p.
(MIRA 18:9)
1. Akademiya nauk SSSR. Institut Latinskoy Ameriki.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

1 V, HOLY THIS MITTER

Jategory : USSR / Radio Physics. Concration and Conversion of Radio-Frequency Oscillations

I-4

Abs Jour : Pof Jour - Fizika No 3, 1957, No 7272

Author

: Grigulovich, V.I.

Title

: Now Method for F equency Multiplication and Quartz Crystal Sta-

bilization of Short and Unit Waves

: Elektrosvyaz*, 1956, .io 6, 14-18 Ori - Pub

Abstract : Description of a frequency-multiplication method, based on the use of the spectrum of periodically-discontinuous oscillations, Unlike radio pulses obtained by modulation, the processes con -ring during intermittent oscillation is under certain conditions periodic for any ratio of Prequency and ..., where is the selfexcitation frequency of the generator and, the frequency of the control voltage that interrupts periodically the oscillations of the generator. If karasa, the amplitude of the component karasa independent of the number k of the harmonic (the maximum of the spectral function shifts relative to). The multiplicity factor is varied over a wide range by the retuning of the generator of frequency . A multiplication circuit is shown and described for

Card

: 1/2

- 21 -

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

Category: USSR / Radio Physics. Generation and Conversion of Radio-Frequency Oscillations

I-i

Abs Jour : Ref Zhur - Fizika No 3, 1957, No 7272

a short-wave multi-channel quartz-crystal system. Similar circuits can be recommended for use all the way to the decimeter band. See also Referat Zhurnal Fizika, 1954, 1821.

Card : 2/2

- 22 -

9(9) APPRQVED FORRELEASE: *Thuïsday, July 27, 2000 CIA-RDP86-00513R00051

TITLE:

The Problem of the Fluctuational Character of Steady-State Oscillations in an Electronic Magnetron Oscillator (K voprosu o flyuktuatsionnom kharaktere ustanovleniya kolebaniy v elektronnom avtogeneratore)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy - radiotekhnika, 1959, Vol 2, Nr 1, pp 65-70 (USSR)

ABSTRACT:

The author investigates the general case of a statistical oscillation build-up process in a self-oscillator in the presence of external excitation and transient switching processes. The presence of the latter reduces the oscillation build-up time in a self-oscillator and decreases its dispersion which increases the threshold possibilities of pulsed systems from the point of view of minimum pulse duration and internal noise. The author shows that the reduction of build-up time

Card 1/3

SOV/142-2-1-8/22 The Problem of the Fluctuational Character of Steady-State Oscillations in an Electronic Magnetron Oscillator

$$((t_0) = \frac{c}{2} + \frac{1}{2} \ln h^2 - \frac{1}{2} \text{ Et } (-h^2)$$

and the magnitude of its dispersion do not depend on the dynamic forces of a system, but are determined by the excitation-to-fluctuation ratio

$$h^2 = \frac{s^2}{20^2}$$

and the regenerated circuit time constant. The statistical characteristics of the build-up time may be used for determining the spectrums of signals and noises. Further, they may be used for calculating spectrum generators, superregenerators, pulse-modulated radio lines and similar systems. The author expresses his gratitude to Doctor of Physico-Mathematical Sciences, Professor M.D.

Card 2/3

The Problem of the Fluctuational Character of Steady-State Oscillations in an Electronic Magnetron Oscillator

Khaskind for valuable advice, and to Docent I. Ye. Sredniy for his remarks concerning this investiga-tion. There are 1 graph and 11 references, 1 of which is American and 10 Soviet.

ASSOCIATION: Kafedra televideniya Odesakogo elektrotekhnicheskogo instituta svyazi (Chair of Television of the Odes-

sa Electrical Engineering Institute of Communications)

SUBMITTED: May 30, 1958

Card 3/3

CIA-RDP86-00513R00051681(APPROVED FOR RELEASE: Thursday, July 27, 2000

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

06356

SOV/142-2-4-9/26

9 (2), 24 (7)

Grigulevich, V.I.

TITLE:

AUTHOR:

The Fluctuation Character of the Spectrum of an Elec-

tronic Self-Oscillator for Pulse Operation

PERIODICAL: Izvestiya vysshiki uchebnykh zavedeniy. Radiotekhnika.

1959, Vol 2, Nr 4, pp 446-453 (USSR)

ABSTRACT:

The author investigates the influence of fluctuations of the initial oscillation generating conditions in a pulse self-oscillator on its output spectrum. The time characteristics of statistical processes for establishing amplitudes and phases of self-oscillators by accounting the fluctuation influence were investigated by I.S. Gonorovskiy /Ref 37. V.I. Grigulevich /Ref 57 and others. A number of papers deal with the influence of fluctuations on the spectrum of a self-oscillator under steady-state operating conditions, I.S. Gonorov-skiy /Ref 1/. I.L. Bernshteyn /Ref 2/. The author used data from his paper /Ref 5/ for this study. He investigates the spectrum of the statistical realization of

Card 1/4

06356 S0V/142-2-4-9/26

The Fluctuation Character of the Spectrum of an Electronic Master-Oscillator for Pulse Operation

a single pulse; some results of preliminary calculations; the calculation of spectrum components of a radio pulse random process; the spectrum of the envelope of a radio pulse random process; and finally, a calculation of internal noises in a pulse oscillator. For some pulse systems, a certain time characteristic of the pulse envelope must be maintained. The conclusions and the quantitative characteristics presented in this paper are of interest for pulse frequency multipliers of superregenerators and radio lines with pulse modulations. According to the results of I.S. Gonorovskiy's paper $\sqrt{\text{Ref}} \ 1/2$, it is easily determined that μ (ω) = $10^{-6} + 10^{-7}$ for a master-oscillator in steady-state operation, and that h = $10^{2} + 10^{4}$, according to the formula

Card 2/4

 $\mu(\omega) = \frac{1}{h^2} \frac{\Delta F}{F_{u}}$

06356 SOV/142-2-4-9/26

The Fluctuation Character of the Spectrum of an Electronic Master-Oscillator for Fulse Operation

> where Δ F- pass bandwidth of the channel. The author concludes that noises in the spectrum of a pulse mesteroscillator are determined principally by fluctuations of the initial conditions of generating oscillations, and chiefly by fluctuations of the initial phase, increasing the density of the continuous spectrum by $2(\beta \gamma_0)^2$ times compared to the spectrum of the envelope. times compared to the spectrum of the envelope

 $2(\beta \tau_{0})^{2} > 1$

The author mentions in a note I.L. Bernshteyn's_critique of the papers of Hamilton, Knipp, Kuper Ref 107 and Pound Ref 11 for their interpretation of the statistical character of processes in a self-oscillator. - The publication of this paper was recommended by the Department of Radio Wave Propagation of the Odesskiy elektrotekhnicheskiy institut svyazi (Odessa Electri-

Card 3/4

06356 SOV/142-2-4-9/26

The Fluctuation Character of the Spectrum of an Electronic Master-Oscillator for Pulse Operation

cal Engineering Institute of Communications). There are 3 diagrams and 11 references, 8 of which are Soviet and 3 American.

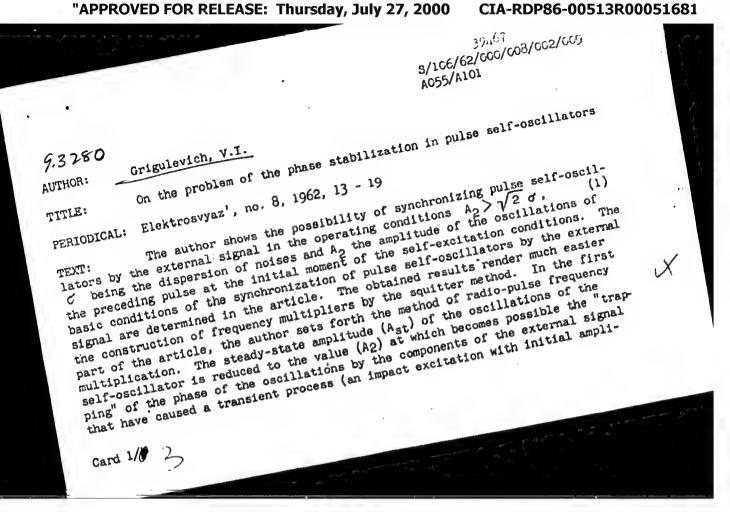
SUBMITTED: January 5, 1959

Card 4/4

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681

GRIGULEVICH, V. I., Cand Tech Sci -- (disc) "Radio-impulse multiplier of frequencies. (Generator of spectra)." Moscow, 1960. 16 pp; (Ministry of Higher and Secondary Specialist Education REFER, Moscow Order of Lenin Aviation Inst im Sergo Ordzhonikidze);160 copies; price not given; bibliography at end of text (22 entries); (KL, 27-60, 152)

"APPROVED FOR RELEASE: Thursday, July 27, 2000



S/106/62/000/c08/c02/009 A055/A101

On the problem of the phase stabilization in ...

tude A_y) in the self-oscillator circuit. Owing to the positive feedback, the already stabilized oscillations increase then again up to the value A_{st} . The process is repeated periodically at the frequency of the synchronizing signal $\Omega = \frac{2\pi}{T}$. As a result, the output oscillation of the self-oscillator becomes a strictly periodical sequence of radio pulses with a period equal to T (Fig. 1). After a brief description of the properties of this frequency multiplication method, the author determines the self-oscillator synchronization conditions. Ao, φ_0 and ω_0 being, respectively, the initial amplitude and phase of the oscillation, and the natural frequency of the self-oscillator, the author writes:

 $A_2 = A_{st} e$ (2)

(where β_2 is the damped circuit decrement, independent of the number k of the pulse), and

 $\vartheta = 2\pi \left(\frac{\omega_0}{\Omega} - N \right) , \qquad (3)$

where ψ (see Fig. 2) is the variation of the phase of the oscillation in the pulse, and N is the multiplicity factor, also independent of k. The author de-

Card 2/6 3

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

On the problem of the phase stabilization in

S/106/62/000/008/G02/009 A055/A101

duces next a set of expressions for the oscillations in the k-th pulse. The full synchronization of the self-oscillator takes place if there exists the limit

$$\lim_{k\to\infty} \varphi_0, k = \varphi_0, \tag{9}$$

independent of k. This can be satisfied only if $|\eta| \sin \vartheta | \leq 1$. (12) At the end of the article, the author discusses the assumptions made by him and shows that the synchronization condition (12) holds in spite of these assumptions. There are 2 figures.

SUBMITTED: January 8, 1962

Figure 1: (1) A_{st}

X

Card 3/6 3

10187

9.2586

S/106/62/000/009/002/003 A055/A101

AUTHOR:

Grigulevich, V.I.

TITLE:

Synchronization of self-pulsed oscillators in linear operating

conditions

PERIODICAL: Elektrosvyaz, no. 9, 1962, 26 - 32

TEXT: This work is a continuation of the author's previous article ["K voprosu stabilizatsii fazy v impul'snykh avtogeneratorakh" (On the problem of phase stabilization in self-pulsed oscillators), Elektrosvyaz', no. 8, 1962] where he dealt with the synchronization conditions of self-pulsed oscillators in "self-oscillating" or "honlinear" operation. Analogous formulae are now deduced for oscillators in "linear" or "amplification" operating conditions. The amplitude A2 of residual oscillations before the achievement of synchronization depends here on the number k of the pulse: $A_2, k = A_0, k-1 \propto 1000$ where $\alpha \ge 0$ is a factor taking into account the variation of the oscillation amplitude in the pulse sequence period $T = \frac{2\pi}{2}$, i.e., $\alpha = 0$ (T), U (t) be-

Card 1/3

S/106/62/000/009/002/003 A055/A101

Synchronization of self-pulsed oscillators

ing the envelope of the pulse. The synchronization conditions are determined by the following conditions:

$$\lim_{k \to \infty} A_0, \qquad (6) \qquad \lim_{k \to \infty} \varphi_0, \qquad (7)$$

The general synchronization condition, which does not depend on the relationship between ω_0 and Ω is: $\alpha<1$. (8) For a given relationship between ω_0 and Ω , synchronization takes place if the following system of equations can be solved for A0 and φ_0 :

$$\sin \varphi_0 = \frac{A_0}{A_y} (a \sin \theta)$$

$$A_0^2 = A_y^2 + A_0^2 (a^2 + 2 A_0 A_y) (a \cos (\varphi_0 + \theta))$$
(9)

Synchronization conditions (3) and (9) hold for any $A_y>0$. (14) They hold for any general assumption, with one restriction: superposition of excitation and residual oscillations should be possible in the range of initial

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

X

Synchronization of self-pulsed oscillators

8/106/62/000/009/002/003 A055/A101

amplitude values. Several formulae for checking the fulfillment of the synchronization conditions in practical frequency multiplier circuits are reproduced in the second part of the article. The results obtained both in this article and in the previous one facilitate the design of pulsed frequency-multipliers. Thanks are expressed to I.I. Shumlyanskiy and L.P. Kramarenko. There are 2 figures.

SUBMITTED:

January 8, 1962

Card 3/3

ACCESSION NR: AP4029221

5/0106/64/000/004/0019/0026

AUTHOR: Grigulevich, V. I.; Lobodzinskiy, V. A.

TITLE: Some optimum relations in the limitation of AM oscillations

明報: 建铁路

SOURCE: Elektrosvyaz', no. 4, 1964, 19-26

TOPIC TAGS: frequency multiplication, AM, AM limitation, AM suppression, radio pulse frequency multiplication

ABSTRACT: A method of evaluating the efficiency of AM suppression by limiters is suggested. The suppression is mainly intended for obtaining monochromatic oscillations from the spectrum of a radio-pulse frequency multiplier (V. I. Grigulevich, Elektrosvyas', 1956, no. 6). The system consists of a quartz oscillator, a frequency multiplier, a preselector, a limiter, and a filter; the preselector converts the pulsed oscillations of the frequency multiplier into AM continuous oscillations. The nature and position of the extremum points in the

Card 1/2

ACCESSION NR: AP4029221

output wave differ from those at the limiter input: the modulation frequency is doubled which was experimentally corroborated. The modulation factor at the output is found to be equal to: $m' \approx \frac{1}{12} v_0^2 m^2$; the efficiency of the amplitude limiter is $v_{c\rho} = \frac{1}{12} v_0^2 m$ where $\eta = \frac{U_n}{U_m} \approx \cos \theta$. The case of limiting under frequency-multiplication conditions is also considered. Orig. art. has: 4 figures and 37 formulas.

ASSOCIATION: none

SUBMITTED: 09Jun63

DATE ACQ: 28Apr64

ENCL: 00

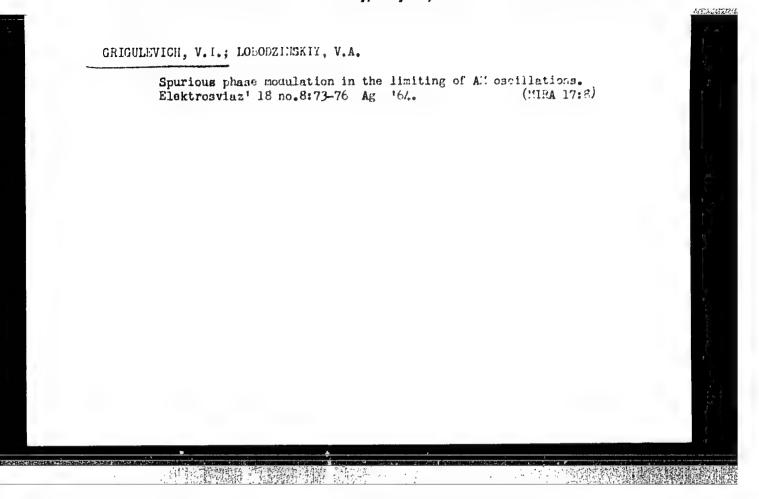
SUB CODE: EC

NO REF SOV: 003

OTHER: 000

Cord 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681



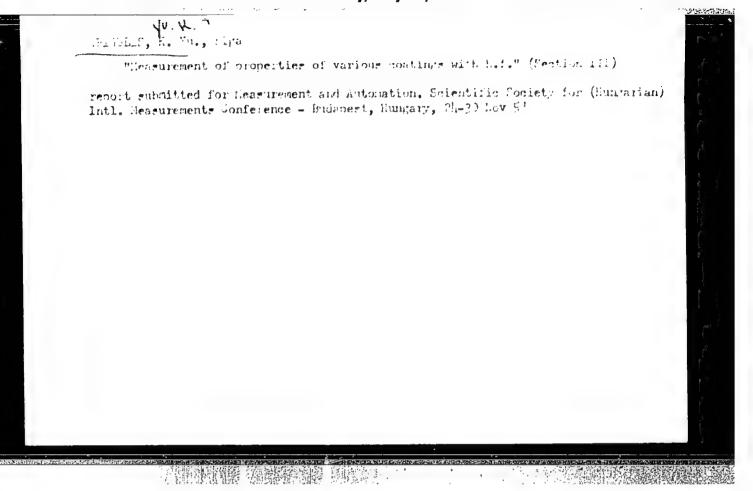
GRIGULIS, J.

High frequency electromagnetic method for controlling the properties of surface covers of details. In Russian. p. 29.

LATVIIAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2, Feb. 1960 Uncl.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681



PHASE I BOOK EXFLOITATION

Soveahchanity po kompledancy ecchaniasisi; invirantizisi; tekhor logichestin professor washinastroyani; 24, Assor, 1956 Avcoratizatii, professor washinastroyani; 24, Missor, 1956 Avcoratizatii, professor v. 3; Metal Cutting and Gerenian of Kalend-Mulding Professor, 1940 Avcoration of March College, 1940 Avcoration of March	Sovemhchanity po komplekancy meahingatest i a logicheskikh protessow w meahingatestosizate transing an inhibity voprous with protesso i reanings i chichigo voprous avtomatizate transing a lothchigo voprous avtomatizate maning meaning processos. Izdavo M. 8558, 19 its: Trudy, t. 3) 4,700 copies printed. Sponsoring Agency: Azdemiya nauk 5588. Inst Kosaissiya po teknologii maahinostroyenlya. Nasp. Ed.: V. I. Dikushin, Academician; Ed. o V. A. Kotov; Tech. Ed.: I. P. Kurfain. PURPOSE: This collection of articles is inten personnel concerned with the automation of Conference on the Full Machairation and Automating Processos in the Machine Industry, 1950me I deals with the Automatical of Eaching Volume I deals with the Automatical of Eaching Volume I deals with the Automation of Paradming and Automation of Machine Collection of Automatical of Machine I deals with the Automation of Machine Machine I deals with the Automation of Machine Leading and Automation of Machine Leading Automatical Automat	tematizatii tekhu- Zd, Moscow, 1956 (inti Obrabo (inti Obrabo int and General Au- So, 256 p. (Serie Serie Thulishing House: Thulishing House: An three volumes. Frend in automa. In Automatic in Automatic pecial Design Attic Froduc. Outting Fachines
Avecastizately mashinostrolicy, processes over 1111 Ophnocis resaming an observable of the resaming of the res	Avtomatizately: mishinostroitelingth processes rezaringes is obscholing vopers attomatization chine-building Processes. 7. 31 chine fattl cit mation Problems) Poscow, Izd-vo AM SSSR, 19 Its: Trudy, t. 3) 4,700 copies printed. Sponsoring Agademys and SSSR, 19 Komissiya po teknologil manihostroyethys. Resp. Ed.: V. I. Dikushin, Academician; Ed. V. A. Ectov; Iech. Ed.: I. F. Kur'min. PURPOSE: This collection of articles is intempersonnel concerned with the automation of Conference on the Full Machanization and Automating Processes in the Machine Industry, 1950me I deals with the actualors and some interpretation and surface in the Machine Industry, 1970me I deals with the Automatical Collection of manifolds. In the Machine Industry, 1970me I deals with the automation of machine deals with the automation of machine volume deals with the automation of machine and an administry of machine and manifolds.	(Autonate National Paris, (Autonation of Paris, 296 p. (Serie 100 296 p. (Serie 296 p.
Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedenlystensisty po technologii maximinostroyeniya. Komisiya po technologii maximinostroyeniya. V. K. Koloy; Ten. Ed.: I.P. Enthan. FURPOSE: This collection of articles is intended for technical parternal contensed content of the transactions of the sachina industry. COTRIGIE: This is Volume III of the transactions of the Sachina of the Scend Conference on the Pull Mechanization and Automation of Annice. Entity of the actual of the Pachine Industry, hald September 25-29, 29-26. The transactions have been published in three volumes. Young it also settled and the Pachine Industry, hald September 25-29, 29-26. The transactions have been published in three volumes. Young it and with her word in the sational part of automatic processes, under the automation of sational processes, under the automation of setal-menthine processes, under the supervision of Faria and Authorism of Medical Instruments. Expans, Yu. B. On the Operation of the Tools in Automatic production in Production Expans, Yu. B. On the Operation of the Tools in Automatic production in Correction of Medical Instruments. Yegorov, B. V. Automatic Machining of Parts Used in Medical Instruments. Automating of Machine-Pullding Processes hased on Motary Transfer Machines Medical of Operation of Machines of Cont.) Sov/2201 Yakonson, M. O. A. Mutomatic Machines for Automated Production of Machines Machines Matchineling Processes hased on Noteration of Machines and Ophined Sharks Espain, L. W. Automation of Machines and Ophines and the Institute Machines and Ophines and the Institute Machines and Machines and Machines and Ophines and the Institute Machines and Ophines and the Institute Machines and Ophines and the Institute Machines and Ophines and Institute Machines and Mach	Sponsoring Agency: Akademiya nauk 553R. Inst Komisslys po tekthologil mashinostroyenlys. Resp. Ed.: V. I. Dikushin, Akademician; Ed. o V. A. Kotov; Tech. Ed.: I. P. Eurimin. Purcoss: This collection of articles is intenspersonnel concerned with the automation of portsonnel on the Full Machanization and Autoring Processes in the Machine Industry, buring Processes in the Machine Industry, buring Processes in the Machine Industry, Volume I deals with the hot pressoriting and volume datas with the automation of machine bardening, and with the automation of machine bardening, and with the automation of machines.	ttut mashinovedenty Publishing House: Ind for technical the sachine industr ns of the Second tomation of Manufac and September 25-29 and Septemb
Masp. Ed.: V. I. Dikushin, Acadesteian; Ed. of Publishing House: V. A. Kotov; Tech. Ed.: I. P. Furfain. WHRPCE: This collection of satisfies is intended for technical personnel concerned with the autocastion of the machine industry. Concernes on the Publ Mechanisation and adversarion of Manuscipal Concernes on the Publ Mechanisation and adversarion of Manuscipal Concernes on the Publ Mechanisation and adversarion of Manuscipal Concernes on the Publ Mechanisation and adversarion of Manuscipal Concernes on the Mechanish Mechanish of Manuscipal Concernes and the Mechanish Mechanish and work wolume dails with the autocastion of metal machinis and work bardening processes was attactions on the autocastion of metal-machining brocesses ware published under the supervision of E. 3. Damingmond A. M. Kartygian, and those on the matchastion of work manufaming processes, under the supervision of E. A. Sacel and M. O. Karebson. Mo personalities are sentioned. There are no references. Expans, M. D. G. Experience of the Tools in Autocatic Froduction of Froduction and Masterial Autocatic Production Meklyador, G. I. Autocation of Universal Metal-Outting Pachines Signification of Mathine-Publiding Processes (Cont.) SOV/5231 Yakonson, M. O. Autocation of Wanufacturing Processes hased on Metalydor, G. M. Metaling Processes (Cont.) Sov/5231 Yakonson, M. O. Autocation of Manufacturing Processes hased on Motary Trunsfer Munitar Methania, L. M. Autocation of Manufacturing Processes hased on Motary Trunsfer Munitar Soundary, W. M. Metal-Cutting Facil Contents and Splined Shafts Production Methania, C. M. Autocation of Manufacturing Processes hased on Motary Trunsfer Munitary Plants Soundary, M. Metal-Cutting Plants Soundary, M. Metal-Cutting Plants Soundary, M. M. Metal-Cutting Plants Multipaya, W. S. Matching Multiplane Matthing, M. M. Metal-Cutting Multiplane Matthing, M. M. Metal-Cutting Multiplane Matthin	Nesp. Ed.: W. I. Dikushin, Academician; Ed. o W. A. Kotov; Tech. Ed.: I. F. Kur'adm. FURPOSE: This collection of articles is inten personnel concerned with the automation of COVERAGE: This is Yoluwe III of the transacti Concernee on the Full Machanization and but turing Processes in the Machine Industry, 1956. The fransactions have been published Volume I deals with the hot pressoricing of machine volume deals with the automation of machine volume deals with the automation of machine hardening, and with general problems encoun-	f Publishing House: dd for technical the machine industr the machine industr command and winter at September 25-29 and Septem
li con e mado a sa a a a	PURPOSE: This collection of articles is intenpersonnel concerned with the automation of governance: This is Volume III of the transacti Conference on the Full Mechanization and Auturn Processes in the Machine Industry, he lydime I deals with the hot pressworking of II, with the actuation and control of machine bardening, and with the automation of machine hardening, and with the automation of machine headening, and with the automation of machine headening, and with the automation of metal process.	the machine industrians of sort of the Scend considers of the Scend considers of the Scend shows as the street of the Scend shows as the street of the Scend of t
cond ministration of the control of	This is Volu- ance on the Fu- Processes in The transacti I deals with deals with the ing, and with the	total of the Second total of Manufacture of Manufacture of Land Second as the Arrest of March 18, 20 Cm of Served in automatic served in automatic served in automatic of Served in automatic of Served in automatic of Served in automatic of work are not work are are not are not work
nes 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	processes were published under the supervision and A. W. Karategin, and those on the hardening processes, under the supervision. M. O. Takobson. Mo personalities are senting	in Automatic pecial Design atic Produc- Outing Machines
25)1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ergaher, Yu. B. On the Operation of the Tools Production Lines	neisl Design atic Produc- Cutting Machines
231	Lyndmirskly, D. O. Experience of the SKB-5 (a Office No. 6) in Designing and Mastering Autor tion-Line Operations	Cutting Machines
Automatic Machining of Parts Used in schine-Pullding Processes (Cont.) SOV/3-2)1 Automated Production of Gears and Splined Automated Production of Manufacturing Processes based fer Machines. Automation of Manufacturing Processes at State Furning Plant! Experience in the Operation of Semiauto- (Opping Machines Automatic Palancing Machines) Automatic Palancing Machines Automatic Palancing Machines Automatic Palancing Pachines Automatic Palancing Pachines	Yegorow, B. V. Automation of Universal Metal- for Mass Production	
Automated Production of Gears and Splined Automated Production of Gears and Splined Automated Production of Manufacturing Processes based for Machines. Automation of Manufacturing Production State Fraring Part State Fraction of Manufacturing Processes at State Fraring Plant! Experience in the Operation of Semiauto-Copying Machines Automatic Ralancing Machines . Mew Attanced Processes for the Mass Pro-Ing Frantings	Automatic Machining of	Used in
Automated Production of Gears and Splined Automated Production for Manufacturing Processes based for Machanted Production Metal-Catting Twols for Automated Production State Fuering Plant! State Fuering Plant! State Fuering Plant! Automation of Manufacturing Processes at State Fuering Plant! Coping Manufacturing Machines Automatic Ralancing Machines Manufacturing Planting Machines Ing Hearings	Automation of Machine-Pullding Processes (Cont	
nufacturing Processes lased is for Automated Production Manufacturing Processes at it. he Cperation of Semiauto- noing Machines rucesses for the Mass Pro-	Automated Production of	
is for Automated Production Mandacturing Processes at its Cperation of Semiautonoing Machines rocesses for the Mass Pro-	Ecankin, E. M. Automation of Manufacturing From Wolary Transfer Machines	
Anufacturing Processes at it. I for a femilian of Cemiautonaling Machines recesses for the Mass Pro-	Nykin, G. H. Hetal-Catting Teols for Automat	ed Production
he Cperation of Semiauto- noing Rachiness rucessez for the Mass Pro-	Derbisher, A. V. Automation of Munifacturing the 1 OPZ [lat State Fuering Flant]	
W. S. Auscritic Palancing Machiness A. D. Mer Alvaned Processes for the Mass Pro-	Sokolov, Ye. P. Experience in the Operation of matic Mydraulic Coping Pachines	Semiauto-
A. D. New Atvanced Processes for the Mass Pro- Sliding Pearlings		
2	Sliding Bearings	2
	3	

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681(

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

Company of the control of farteness of the control	
as Grinding	7
Zolotykh, B. N. Fresent State of and Prospects for Electrospark Machining of Metals and Methods for Its Auteration	35
Rozenberg, L. D., and D. P. Yakhirvich. Use of Ultrasonics for Machining Hard and Brittle Nescrials	164
Zheleznov, Ye. 3. Automation of the Process for Grinding Bearing Rings	173
Dashchenko, A. I. Investigating the Process Parameters of Small Semiautomatic Unit-Head Machine Tools	186
PART II. AUTOMATION OF SURFACE-MARDENING PROCESSES	
Chirikov, V. T. Controlling the Carburizing Process	803
Card 5/7	
Automation of Farming-Building forcesses (volve)	;
Righ-Frequency Heating in Automitic Production Lines	4
Larkin, F. R. Automatic Unit for the Shot Fecuing of Leaf Springs	217
Grigulia, Yu. K. Automating the Thickness Control of Sur-	8
PART III. GENERAL PROBLEMS IN AUTOMATION	
Risgonravov, A. A. (Academician) Objectives of Automating the Processes in Machine Building	S
Dikushin, W. I. (Academician). Problem of Automation to Rachine building	22
Kulebakin, V. S. [Academician], On Mathods of Improving Automatic Systems	346
Automation of Machine-Milding Processes (Cont.) 30V/5291	
Elimenko, E. I. Economic Effectiveness of Automation and Methods of Determining It	Ę
Yesel'yanov, A. D. Basic Principles of Determing the Economic Effectiveness in the Automation of Production	Ë
Ioannesyants, M. Ya. Investment per Unit of [Axted] Horse-power in the Automobile Industry	Ŕ
ATAILABLE: Library of Congress	

市行業體學。文學學科學科學

S/194/61/000/008/018/092 D201/D304

AUTHOR:

Grigulis, Yu.K.

TITLE:

Automatic thickness control of surface films

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 8, 1961, 17, abstract 8 VI41 (Avtomatiz. mash-inostroit. protsessov, v. 3, M., AN SSSR, 1960, 222-

226)

TEXT: The method of measuring the force required to tear off a permanent magnet from the investigated surface is used to determine the thickness of anti-corrosion films coating a ferromagnetic backing. A rod with a magn. tip is placed inside a coil with a.c. Under the effect of magnetic field produced by the coil, the rod is torn off from the object surface. The magnitude of current determines the thickness of coating. The sensitivity of the instrument is controlled by the initial position of the coil with respect to the rod. The wear of the rod tip is prevented by a rolled-in

Card 1/2

Automatic thickness control ...

S/194/61/000/008/018/092 D201/D304

steel pellet 1 mm dia. The effect of the thickness of the object is eliminated by using an armoo ion bench. The instrument was designed at the Laboratory of Sciences of Machines of the AS Latvian SSR, the automatic version by the B30 (VEF) factory. The instrument may be used for measuring the thickness of a cemented or anodized coating, also for measuring nickel or chromium coating. 4 figures. 3 references. [Abstracter's note: Complete translation]

Card 2/2

AUTHORS:

1

Origulis, Yu.K., Fastritskiy, V.S.

TITLE:

The Universal Device VII -3M (UP-3M) for Checking the Thicknesses

of Coverings and Properties of Surface Layers

PERIODICAL:

Byul. tekhn.-ekon. inform., 1961, No. 1, pp. 42-44

TEXT: The Laboratoriya avtomatizatsii proizvodstvennykh protsessov (Laboratory for Automation of Production Processes) of the Institut mashinovdeniya AN Latviyskoy SSR (Institute of Science of Machines at the Academy of Sciences of the Latviyskaya SSR) developed a high-frequency device UP-3M for measuring the thick-Latviyskaya SSR) developed a high-frequency device UP-3M for measuring the thicknesses of arbitrary coverings on arbitrary base materials under the condition that their electrical conductivities or the magnetic permeabilities differ by at least a few percent. The high sensitivity of the device permits also the measurement of surface layer properties of components or their coatings over a very wide range; the electric conductivity, the magnetic permeability, the homogeneity degree of the chemical composition and the thermal treatment, the porceity, the surface fineness, the presence and magnitude of surface cracks, the amplitudes and frequencies of the vibrations of mechanical components. The operation principle of the device

Card 1/4

The Universal Device MI -3 M (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

is as follows: a high-frequency electromagnetic flux of an emitter induces in the surface layer of the component eddy currents causing energy losses and an electromagnetic counter-flux; the magnitude of losses and electromagnetic counter-flux depends on the electromagnetic properties of the surface layer or on the distance between the emitter and the component. The device consists of the following units: supply with electronic stabilizer, h.f. generator, measuring device with emitter, amplifier, and indicator. The supply unit includes the transformer, two semiconductor bridge rectifiers, the electronic stabilizer made up of valves and a stabilivelt; the filament voltage is stabilized by a barreter. The generator has two circuits with electron coupling (so called Schembel generator with series connection of the circuits) having high frequency stability within wide limits independent of the load variability. The measuring unit is a T-shaped overlapping bridge whose responsive element is the special transducer in the form of a coil placed in a specially shaped ferrite concentrator. The bridge is adjustable by a capacitance selector, a variable capacitor, resistance selector, and potentiometer. The bridge input voltage is 1.4-1.6 v independent of the balancing degree. The bridge

Card 2/4

The Universal Device \n -3M (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

output voltage is fed into the resonance amplifier input through a resistance, a potentiometer, and a separation capacitor. The resonance amplifier permits the separation of the fundamental harmonic. The resistance serves for the widening of the pass band. The amplification factor of the amplifier is 100. The indicator unit consists of the detector and the d.c. amplifier with a microammeter in its anode circuit. The measurement can be carried out by both methods of unbalance and two parameters. In the former case, the device is balanced and tuned with the transducer on the standard basis. For measuring different coverings on steel and nonmagnetic metals or the thicknesses of different foils applied to a nonconductive base, calibration graphs are added to the device; if the electromagnetic properties of the base and covering materials differ sharply, it is convenient to perform the measurement with the transducer removed from the component by a few millimeters. The measuring method of two parameters is based on the possibility of direct fixing of the changes of the active and induced transducer resistance, if the transducer is contacted with specimens of different materials, with different covering or different finish degree; for these measurements special diagrams must be plotted. This method makes it possible to measure simultaneously two parameters Card 3/4

The Universal Device \| |-3|1 (UP-3M) for Checking the Thicknesses of Coverings and Properties of Surface Layers

of a covering or a surface layer, for instance, electric conductivity and magnetic permeability, or the thickness of the covering or the surface layer and its electric conductivity. The sensitivity of the device to variations of the environmental temperature is a disadvantage, which requires additional balancing at an environmental temperature exceeding 40°C , whereby the sensitivity of the device does not change. Moreover, when using manganese-zinc ferrites for the transducer concentrator, the transducer parameters become generally better, and the influence of the environmental temperature considerably decreases. The manufacture of a lot of 500 pieces of the device UP-3M is included into the plan for 1961 according to the resolution of the Nauchno-tekhnicheskiy komitet i sovnarkhoz latviyskoy SSR (Scientific-Technical Committee and Sovnarkhoz of the Latviyskaya SSR). There is

Card 4/4

CRIGULIS, Yu. [Grigulis, J.]; KHUBAYEVA, Z.

Effect of the properties of galvanic platings on the measurement of their thickness by using high-frequency electromagnetic instruments. Izv. AN latv. SSR no.10:33-40 (MIRA 17:1)

163.

1. Institut avtomatiki i mekhaniki AN latviyskoy SSR.

AUTHOR: Grigulis, Yu. K. TITLE: Studying the laminate semiconductor and metallic structures by a h-f electromagnetic field SOURCE: AN LatSSR. Institut energetiki. Trudy, no. 17, 1964. Poluprovodniki i ikh primeneniye v elektrotekhnike, 3. Upravlyayemyye poluprovodnikovyye vypryamitel'nyye elementy i ikh primeneniye (Semiconductors and their use in electrical engineering, 3. Controlled semiconductor rectifying elements and their use), 195-214 TOPIC TAGS: semiconductor material, laminate structure ABSTRACT: The theoretical principles for measuring geometrical and physical parameters of semiconductor structures by observation of the peculiarities of propagation of a h-f electromagnetic field are set forth. Special emphasis is	L 60225-65 JD/AT ACCESSION	EWT(1)/EWT(m)/EWP(i)/T/ NR: AT5013580		000/017/0195/02	,	
i ikh primeneniye v elektrotekhnike, 3. Opravlyayemye potors and their use in vypryamitel'nyye elementy i ikh primeneniye (Semiconductors and their use in electrical engineering, 3. Controlled semiconductor rectifying elements and their use), 195-214 TOPIC TAGS: semiconductor material, laminate structure ABSTRACT: The theoretical principles for measuring geometrical and physical parameters of semiconductor structures by observation of the peculiarities of propagation of a h-f electromagnetic field are set forth. Special emphasis is	TITLE: Stu	dying the laminate semi	iconductor and metal	lic structures by	•	
ABSTRACT: The theoretical principles for measuring geometrical and physical parameters of semiconductor structures by observation of the peculiarities of parameters of a h-f electromagnetic field are set forth. Special emphasis is	i ikh primen vypryamitel electrical e	ieniye v elektrotekhnike 'nyye elementy i ikh pr ngineering, 3. Controll	monanive (Semicond	luctors and their	use in	Street and the street
parameters of semiconductor structures by observation of the propagation of a h-f electromagnetic field are set forth. Special emphasis is						
Card 1/3						
	Card 1/3	**				

L 60225-65

ACCESSION NR: AT5013580

placed on the lay-on sensor transducers (primary elements) as they measure only a narrow local spot. The sensor's electromagnetic field distribution is calculated assuming that no field diversion occurs in the penetration process, and the case can be regarded as a planar problem. Also, the case of the wave propagation normally to the surface, with an allowance for wave phenomena and attenuation, is examined. Formulas for the characteristic resistance of a laminate structure are developed. A simplified calculation is possible in these two particular cases: (1) When quasi-stationary conditions prevail, and the field in the laminate structure can be studied by stationary methods (dielectrics); (2) When the field penetrates normally to the surface of the material (metals, semiconductors). Theoretical and experimental curves of the R and X components of the characteristic impedance of steel and brass plated with Al, Ag, Sn, Cu, Zn, Pb, Ni are compared; the experimental values were measured by Soviet-made PPM-4 and UP-1 (and improved PPM-6 and UP-3M) h-f sensors. It is recommended that the semiconductor structures be studied in a wide frequency band; at shf, the study can be based on the absorption of electromagnetic energy and the wave field

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000

175位725 当境影影》

CIA-RDP86-00513R00051681

L 60225-65

ACCESSION NR: AT5013580

phenomena; at hf, on the phase relations of the penetrating field and the components of the complex dielectric constant. Orig. art. has: 6 figures, 36 formulas, and 1 table.

ASSOCIATION: Institut energetiki AN Latviyskoy SSR (Institute of Power Engineering,

AN Latvian SSR)

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 009

OTHER: 002

Card 3/3

L 60227-65 EWT(1)/T/EWA(h) Pz-6/Peb IJP(c) AT
ACCESSION NR: AT5013581 UR/2584/64/000/017/0215/0227

AUTHOR: Grigulis, Yu. K.; Aboltyn', E. E.

TITLE: Measuring the resistivity and surface-layer thickness in semiconductor structures by an electromagnetic shf field

SOURCE: AN LatSSR. Institut energetiki. Trudy, no. 17, 1964. Poluprovodniki i ikh primeneniye v elektrotekhnike, 3. Upravlyayemyye poluprovodnikovyye vypryamitel'nyye elementy i ikh primeneniye (Semiconductors and their use in electrical engineering, 3. Controlled semiconductor rectifying elements and their use), 215-227

TOPIC TAGS: semiconductor material, semiconductor resistivity, semiconductor structure

ABSTRACT: The results of a theoretical and experimental study of the physical characteristics of semiconductor laminate structures are reported. The physical phenomena of penetration of a shf field, from lay-on sources, into a semi-conductor having dielectric but no magnetic loss are theoretically considered. The effect of tg & and surface-layer thickness in the R and X components of the

Card 1/2

L 60227-65 ACCESSION NR: AT5013581

characteristic impedance are calculated (curves shown); two particular cases are analyzed: (1) The field undergoes a complete attenuation in the surface layer; (2) The field penetrates the surface layer and dissipates in the base without reflection. Formulas are derived for determining the characteristic-impedance coefficients for structures containing semiconductor, metallic, and dielectric layers. An experimental outfit comprised a waveguide with a plunger on one end and the test specimen placed in touch with the other end. By measuring the traveling-wave ratio and noting the plunger position at minimum indicator reading, the specimen characteristics were determined. With a slot shf radiator, a 0.5x2-mm surface specimen accessible on one side only was successfully tested at 10 to cps. Orig. art. has: 5 figures and 19 formulas.

ASSOCIATION: Institut energetiki AN Latviyskoy SSR (Institute of Power Engineering, AN Latvian SSR)

SUBMITTED: 00

ENCL: 00

三、城市的 医水水溶解的 157

SUB CODE: EC

NO REF SOV: 008

OTHER: 001

Card 2/2

IJP(e) EWT(1)/T/EWA(h) L 20621-66 BOURCE CODE: UR/0371/66/000/001/0034/0041 ACC NR. AP6010263 AUTHOR: Grigulis, Yu. K .- Grigulis, J.; Aboltin'sh, E. E. - Aboltins, E. ORG: Power Engineering Institute, AN LatySSR (Institut energetiki AN Laty SSR) TITLE: Measurement of the electrophysical properties of a semiconductor with a slit field source Seriya fizicheskikh i tekhnicheskikh SOURCE: AN LatSSR. Izvestiya. nauk, no. 1, 1966, 34-41 TOPIC TAGS: semiconducting material, resonant cavity, resonator, electronic measurement ABSTRACT: A contactless method was used to measure the thickness and specific resistance of semiconducting materials by exposing them to a unf field acting through a slit in a resonator. By considering the field parameters in the resonator for the case in which one of its walls is made of semiconductor material, the general dependence of Q on the specific resistance of the material p was found. The dependence of Q on p was then found for the case in which the semiconductor fills a slit in one of the resonator walls. All computations were made for a single resonator type with dimensions a=1=2b=20 mm and the TE_{101} mode Card 1/2 法国际 经销售公司

L 20621-66 ACC NR. AP6010263 of oscillation at a frequency of 10^{10} cps. An analysis of the theoretical relationships and experimental results has indicated that the slit should preferably be located in the end wall of the resonator, perpendicular to the current force lines (TE10 wave). The sensitivity of measurements was found to depend on the length of the slit and is inversely proportional to it. The width of the slit has little effect on sensitivity. A slit 8-15 mm long and 0.5 mm wide can be used in measurements without the necessity of signal amplification. The specific resistance of semiconductors in the range of 0.01-10 ohm cm can be measured by slit field sources with an accuracy of ±10%. Orig. art. [JR] has: 5 figures. 002 SUB CODE: 09/ SUBM DATE: 23Apr65/ ORIG REF: 006/ ATD PRESS: 4224

BELYUKAS, K.K.[Beliukas, K.], akademik, red.; GRIGYALIS, A.A.
[Grigelis, A.], kand. geol.-miner. nauk, red.; GUDELIS,
V.K., kand. geol.-miner. nauk, red.; KISNERYUS, Yu.L.
[Kisnerius, J.], kand. geol.-miner. nauk, red.;
KARATAYUTE-TALIMAA, V.N.[Karatajute-Talimaa, V.], kand.
biol. nauk, red.

[Problems of geology in Lithuania] Voprosy geologii Litvy. Pod red. A.A. Grigialisa i V.N. Karataiute-Talimaa. Vil'nius, 1963. 623 p. (MIRA 16:11)

1. Lietuvos TSR Mokslu Akademija, Vilna, Geologijos ir geografijos institutas. 2. AN Litovskoy SSR (for Belyukas).

(Lithuania—Geology)

VONSAVICHYUS, V.P. [Vonsavicius, V.], red., GUDYALIS, V.K. [Gudelis, V.], red.; DALINKEVICHYUS, I.A. [Dalinkevicius, J.], red.; KAZAKOVA, V.A., red.; KISNERYUS, Yu.L. [Kisnerius, J.], red.; CHEPULITE, V.A. [Copulyte, V.], red.; ASSOVSKIY, A.N., glav. red.

[Study of the geology of the U.S.S.R.] Geologicheskaia izuchennost' SSSR. Glav. red. A.N.Assovskii i dr. Vil'nius, AN Litovskoi SSR. Vol.43.[Lithuanian S.S.R.; the period of 1800-1955] Litovskaia SSR; period 1800-1955. No.1. [Published works] Pechatnye raboty. 1962. 257 p. (MIRA 17:8)

1. Institut geologii i geografii AN Litovskoy SSR (for Grigyalis).

GARUNKSHTENE, S.S.[Garunkstiene, S.]; GRIGYALLS, A.A.[Grigelis, A.],
kand. geo.-miner. nauk; VONSAVICHYUS, V.P.[Vonsavicius, V.],
red.; GAYGALAS, A.I.[Gaigalas, A.], red.; DALINKEVICHYUS,
I.A.[Dalinkevicius, J.], red.; KAZAKOVA, V.A., red.;
KISNEHYUS, Yu.L.[Kisnerius, J.], red.; CHEPULITE, V.A.
[Cepulyte, V.]., red.

[Study of the geology of the U.S.S.R.] Geologicheskaia izuchennost' SSSR. Vil'nius, Mintis. Vol.43. No.1. 1964. 224 p.

(MI.M. 18:10)

GRIGYALIS, A.I. [Grygelis, A.]

Dynamics of Ilyodrilus hammoniensis Mich. and Psummoryctes barbatus (Grube) (Oligochaeta) in various biotopes of Lake Diana. Vop. ekol. 5:42 '62.

1. Institut zeologii i parazitelogii, Vil'nyus.

(Diana, Lako-Oligochaeta)

PROKOPOVICH, Arkadiy Vefimovich; GRIUGR'YEV, I.G., inzh., retmenzent; KCRSOV, L.A., inzh., red.; MIRROVA, G.V., tekhn.red.

[Machinery industry in 1959-1965] Stankoustroit.lit-ry, 1959-1965 gg.

Moskva, Oos.nouchno-tekhn.isd-vo mashinostroit.lit-ry, 1959.

152 p. (Sovetskoe mashinostroenie v 1959-1965 gg.).

(Machinery industry)

(Machinery industry)

nigonyer I.E.

11-58-6-8/13

AUTHORS:

Rubinshteyn, M.M.; Grigor'yev, I.G.; Gel'man, O.Ya.; Khutsaidze, A.L.; Chikvaldze, B.G.

TITLE:

On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method (K metodike polucheniya monomineral'nykh fraktsiy dlya opredeleniya absolutnogo vozrasta gornykh porod argonovym me todom)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, Nr 6, pp 95-100 (USSR)

ABSTRACT:

The Argon method of determining the absolute age of rocks is the most convenient for wide scale use in geological research. Not all potassium containing minerals can be used for this purpose. The best mineral is mica - and especially muscovite, biotite and glauconite mica. For the purposes of obtaining monomineral fractions of these minerals in large quantities (necessary for mass age determination), the author constructed 2 separators of which descriptions are given.

There are 2 photos, 2 figures, and 6 references, 4 of which

Card 1/2

are Soviet and 2 American.

11-56-6-8/13

On the Technique of Obtaining Monomineral Fractions for Determining the Absolute Age of Rocks by the Argon Method

ASSOCIATION: Geologicheskiy institut AN GruzSSR, Tbilisi (Geologic In-

stitute of the AS of the Georgian SSR, Tbilisi)

SUBMITTED: July 15, 1957

AVAILABLE: Library of Congress

Card 2/2 1. Geology 2. Rock-Determination

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

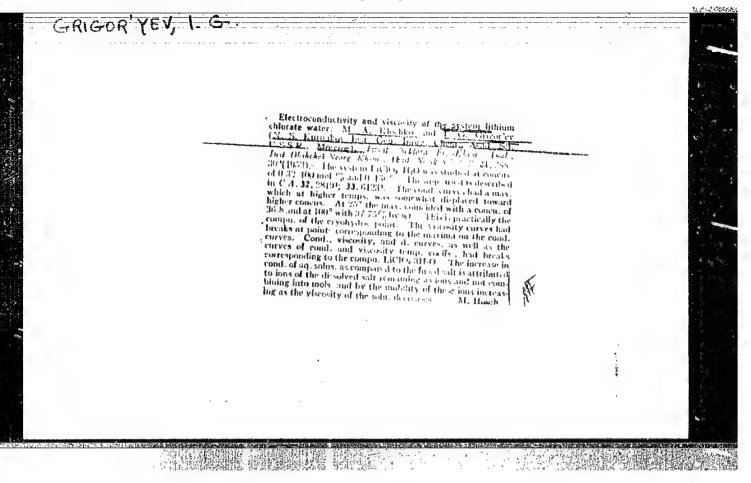
GRIGORYEV. I. G.

Cand Chem Sci

Dissertation: "Electric Conductivity and Viscosity of the Systems Formed of Lithium Chlorate with Water and of Lithium Nitrate with Water, Methyl Alcohol and Water-Dioxone Mixture." 7/6/50

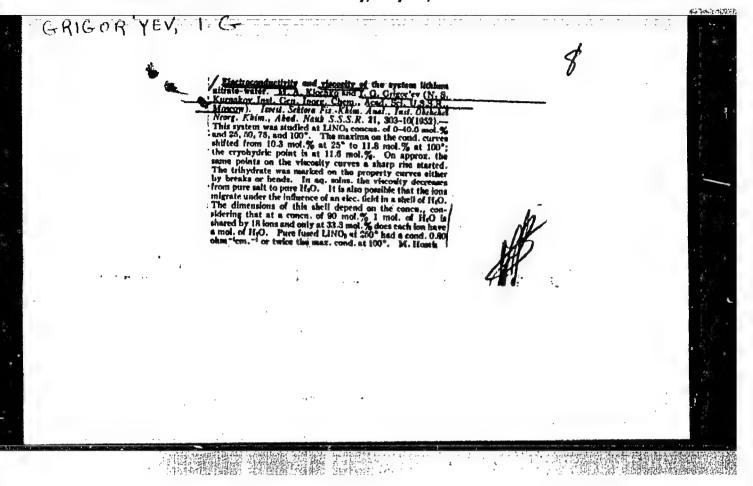
Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR

SO Vecheryaya Moskva



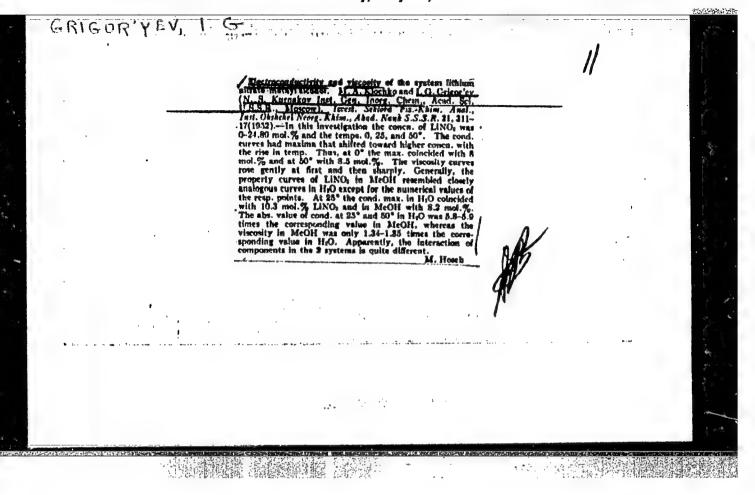
"APPROVED FOR RELEASE: Thursday, July 27, 2000

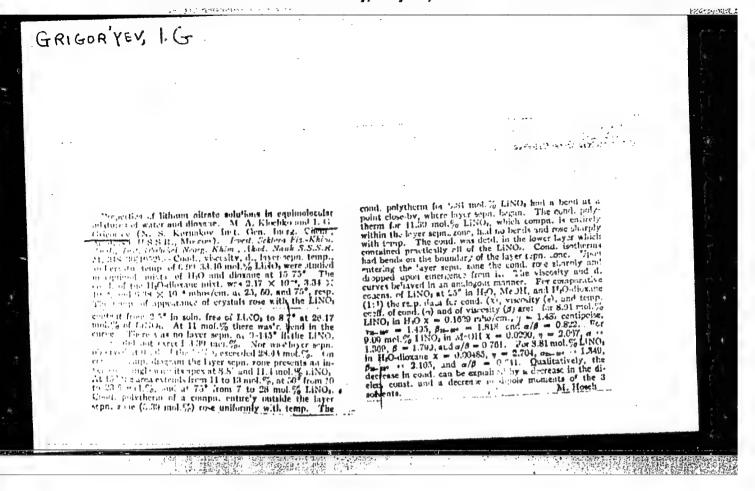
CIA-RDP86-00513R00051681



"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681





27751 \$/058/61/000/007/042/086 A001/A101

11.4100

Rubinshteyn, M.M., Grigor'yev, I.G., Uznadze, E.D., Gel'man, O.Ya., AUTHORS:

Lashkhi, B.A.

Spectrophotometrical determination of alkali metals in ammonia-oxy-TITLE:

Referativnyy zhurnal. Pizika, no. 7, 1961, 175, abstract 70149 . ("Soobshch. AN GruzSSR", 1960, v. 24, no. 6, 683 - 690) PERIODICAL:

The authors describe a flame-photometrical device designed for de-TEXT: termination of Na, K, Li and Rb in solutions. The NH3-02 flame was used for spectrum excitation. The measurement of spectral line intensities was conducted with a photoelectrical device which consisted of an JM -2 (UM-2) monochromator, a photocell, a d-c amplifier, and a microamperemeter. The nature of an effect which arose at the simultaneous determination of alkali elements was investigated, and methods of taking it into account are proposed. In particular, tables are calculated for correcting the results of joint determinations of Na and K.

[Abstracter's note: Complete translation]

Card 1/1

M. Britske

GRICOR'YEV, Ivan Grigor'yavich; ZULIN, Vladimir Vasil'yevich;

FETROPOL'SKAYA, N.Ye., red.; DURASOVA, V.M., tekhn. red.

[Electrical conductivity as a means for analyzing gaseous and liquid systems | Elektroprovednost' kak metod analiza gasovykh i zhidkikh sistem. Katbyshev, Kuibyshevskoe knishnoe izd-vo, 1961. 21 p.

(Electric conductivity) (Electrochemistry)

8/081/62/000/017/041/102 B162/B101

AUTHOR:

Grigor'yev, I. G.

TITLE

Multichannel installation for the purposes of flame photometry

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 17, 1962, 143, abstract 17E10 (Soobshoh. AN GruzSSR, v. 27, no. 3, 1961, 299 - 305)

TEXT: The installation consists of a spectral apparatus with a scanning device and an electronic section, which includes an oscilloscope, a system selecting and distributing electric pulses along the corresponding measuring channels, and the sources of supply. The optical section is assembled on the basis of the MCN-51 (ISP-51).spectrograph.: The scanning of the spectrum is effected by the oscillation of an autocollimation mirror with a frequency of 50 cps. A photomultiplier is used as a radiation receiver. After amplification and transformation the signal is directed on to an oscilloscope, on the screen of which the spectrum investigated is observed. For the exact measurement of the intensity of each line, the pulses are distributed along the corresponding channels. The apparatus described permits the simultaneous measuring of five lines, besides, it is possible to determine the quantities of Na, L, and K in solutions, starting from a Card 1/2

Multichannel installation for the	S/081/62/000/017/041/102 B162/B101	
concentration of 1 mg/l. [Abstracter's not	e: Complete translation.	
Chademuja nouk Afrigun Chademuja nouk Afrigun institut Ibiliai. Pledoc V. V. Mapheldiani	Shoy 55R Hologicheshiy	
		Section of Section (Section of Section of Se
Card 2/2		and the second
,		£ (%)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051681

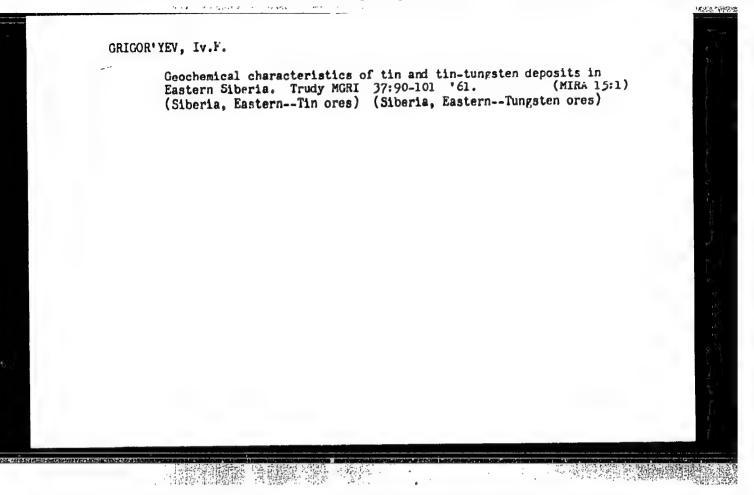
Photometric determination of potassium and sodium in ammoniaoxygon flame. Biul.Kom.po opr.abs.vozr.geol.form. no.4:109-113
(Geological time)
(Potassium)
(Sodium)

Maltichannel system for recording spectra in flame photometry. Zav. lab. 28 no.921139-1141 '62. (MIRA 16:6) 1. Geologicheskiy institut AN Gruninskoy SSR. (Flame photometry)

GPIGOR'YEV, I.G.

Operating experience with a multichannel spectrophotometric apparatus for recording radiations from alkaline elements in flame. Soob. AN Gruz. SSR 29 no.1:17-23 Jl '62. (MIRA 18:5)

1. Geologicheskiy institut AN Gruzinskoy SSR, Tbilisi. Submitted February 12, 1961.



PHASE I BOOK EXPLOITATION

807/4126

Grigor'yev, Ivan Ivanovich, Boris Grigor'yevich Diatroptov, and Madezhda Ivanovna
Plyshevskaya

Prepodavaniye teoreticheskoy mekhaniki v tekhnikume (The Teaching of Theoretical Mechanics in Tekhnikums) Moscow, Proftekhizdat, 1960. 245 p. 4,000 cepies printed.

Scientific Ed.: G.M. Karovskiy; Ed.: M.V. Kobrinskaya; Tech. Ed.: V.I. Sushkevich

FURFORE: This book is recommended as a training manual for teachers at special secondary technical schools by the Training and Methods Direction for Special Secondary Institutions of the Ministry of Special Technical Colleges and Secondary Education in the USER.

COVERAGE: The book discusses a number of general problems in the teaching of mechanics and also special methods of presentation (under the conditions of a tekhnikum' of individual topics. The limited size of this manual does not permit consideration of special methods for all topics of the course; therefore, the topics selected were those most difficult to teach. The topics treated are

Card 1/4

3

6

12

17

27 30

The Teaching of Theoretical Nechanics in Tekhnikums

SOV/4128

statics, which gives the students ability and skill in solving problems for systems in equilibrium, including the foundations of graphical statics; kinematics, which discusses various types of motion and examples of their application in engineering; dynamics, in which only the most essential problems are singled out; and elements of the theory of machanisms and machines, which is quite thoroughly covered. No personalities are mentioned. There are 60 references:

TABLE OF CONTENTS:

Introduction

CHERAL PART

 Aims, problems, and special features of teaching theoretical mechanics with elementary theory of mechanisms and machines at tekhnikums

APPROVED FOR RELEASE: Thursday, July 27, 2000

- 2. Planning the teaching process3. Presentation of new material
- 4. Impressing the material on the students' memory
- 5. Written tests on mechanics

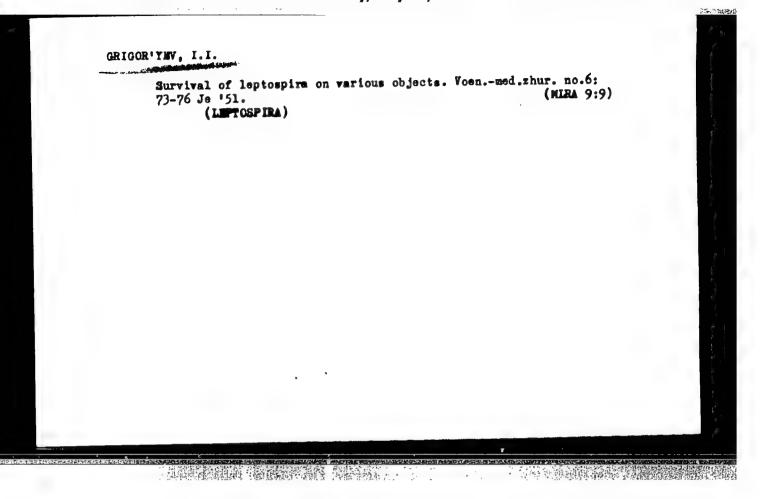
Card 2/4

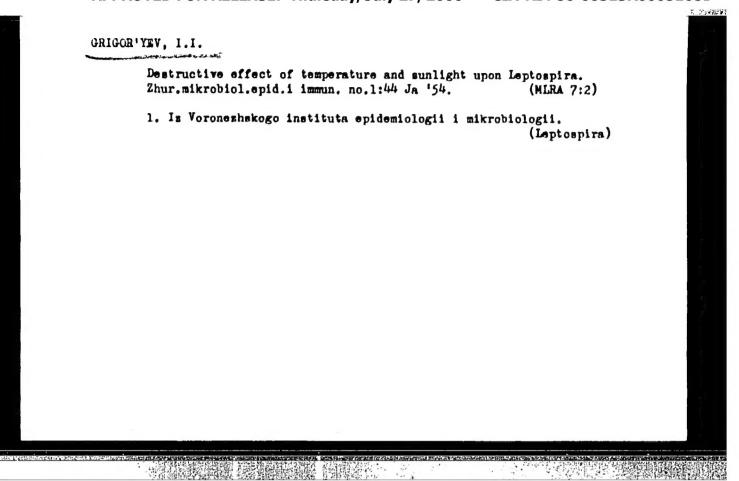
CIA-RDP86-00513R00051681(

SKLYUYEV, P.V.; GRIGOR'YEV, I.I.

Vacuum treatment of steel for seamless-forged steam turbine rotors. Motalloved. 1 term. obr. met. no. 6:34-36 Je '64. (MIRA 17:7)

1. Uraj skiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzonikidze.





"APPROVED FOR RELEASE: Thursday, July 27, 2000 1894年1800年1800年1800年1800年1800年11日

CIA-RDP86-00513R00051681

T

GRIGOR'YEV 1.1.

USSR/Huran and Animal Physiology. Action of Physical Agents.

Abs Jour: Ref Zhur-Biol., No 8, 1958, 37013.

Author : Grigoriev, I.I.

Inst

: Susceptibility to Leptospirosis of Rats Subjected to

X-Ray Irradiation. Title

Orig Pub: Vrachebn. delo. 1957, No 3, 267-270.

Abstract: Rats, (224) were injected intraperitoneally with 5 ml of Leptospira (L) culture of the 2 (Zhukov) or 5 (Kondratiev) serotype; 4 hours to 14 days after a single general irradiation with 400-550 r, a lowering of resistance to this infection, as compared with control animals, was noted. The highest mortality (37%) was noted in rats irradiated with 550 r and infected with L of the 5 serotype, the lowest mortality

: 1/2 Card

136

LEASE: Thursday, July 27, 2000 CIA-RDP86-005 GRIGOR'YMV, I.I.

Sensitivity of irradiated animals to pathogenic Leptospira [with summary in English]. Med.rad. 3 no.4:46-50 J1-Ag '58.

(MIRA 12:3)

1. Is Voroneshskogo rentgeno-radiologicheskogo i onkologicheskogo instituta i Sochinskogo gosudarstvennogo instituta revmatisma.

(IMPTOSPIROSIS, experimental,

immun. in x-irradiated white rats (Rus))

(ROENTOEN RAYS, effects,

on exper. leptospirosis immun. in white rats (Rus))

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(

GRIGOR'THY, I.I., kand.med.nauk; SHIKHOVA, N.M., dotsent; KURAMSHINA, M.G., kand.biol.nauk

Elimination of streptococci in rheumatic fever. Vrach.delo no.6:585-587 Je '59. (MIRA 12:12)

1. Sochinskiy nauchno-issledovatel skiy institut revmatizma.
(RHEUMATIC FEVER) (STREPTOCOCCUS)

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051681(